

The AT Chip Analyzer Plugin for ImageJ

Getting Started...

Installation

Place the file `AT_Chip_Analyzer.jar` in ImageJ's plugin folder. Start/restart ImageJ.

Launch

Select the plugin from ImageJ's plugin menu.

After you have selected the images to be processed left-click the help button in the settings dialog for an explanation of the various settings.

Out-data Explained

The result image, the result excel file and the log file are saved by default. The other options are selectable when "Run w/Advanced Options..." is chosen from the plugin menu.

Result Image The results are printed on top of the image. Black box translates to 0, red box to 1, and cyan box to -1 in the result excel file. Present spots are marked by a small red circle. Noise is marked by a larger cyan (or orange) band. Gene markers that are present but only by a small margin are marked by '??'. The numbers corresponds to lines in the result excel file. The file is in the `tif` format.

Background Subtracted Result Image It is the same as the result image except the background has been normalized. This means that the image is lighter and more even in intensity. The file is in the `tif` format and has 'bg' appended to its name.

Copy of In-data Image The control spots will face left. The file is in the `bmp` format.

Result Excel File Warnings: 'C' means a conflict occurred. This is possible for `oprL`, `fliCa`, and `oprL`. 'N' means exactly one spot had noise (or "at least one" in the SNP part of the image). '1' means only one spot of a pair was present. '0' means the spots were present but only by a small margin.

The empty column is meant for the user to register the plugin's original result if the user changes this. This aids in gathering information on possible improvements of the plugin in the future.

Log File It shows the general plugin settings and the quality of each image on a scale from 1 to 5 where 5 is best. The numbers of the different kinds of warnings are also listed. The user can mark the files whose results have been verified manually to administer the overall process when dealing with multiple images.